

**Department of Aeronautics and Astronautics  
Naval Postgraduate School**

**Faculty Vita**

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**Ramesh Kolar**

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**Education:**

Ph.D. University of Arizona, 1984  
MSAE Indian Institute of Science, 1978  
BSME University of Mysore, 1976

**Related Experience (Teaching, Industrial, etc.):**

Aerospace Consultant, 1993-1997.  
Post-doctoral Research Fellow, University of Arizona, Tucson, Arizona, 1984-1985.  
Research Assistant, Interactive Graphics Engineering Lab, University of Arizona, Tucson, Arizona, 1980-1984.  
Aerospace Design Engineer, Vibrations and Aeroelasticity Group, Aircraft Design Bureau, Hindusthan Aeronautics Limited, Bangalore, India, 1978-1980.

**Institutional and Professional Service (Last 5 Years):**

Director, Short Course for NAVAIR Education Competency Package on Aircraft Fatigue & Fracture, Practical Aircraft Structural Analysis, Aircraft Flight & Ground Loads, 2000-present.  
Chairman of NPS Academic Council Course & Curriculum Committee, 1991-1992.  
Member, Academic Council Representative from the Department of Aeronautics and Astronautics, Naval Postgraduate School, 1991-1992.  
Numerically Intensive Computing Team, 1988-1990.  
Member, NPS joint Aero-Mechanical CAD/CAE Laboratory development, 1986-1989.

**Scientific and Professional Society Membership:**

American Institute of Aeronautics and Astronautics  
American Helicopter Society  
American Society of Mechanical Engineers

**Principal Publications (Last 5 Years):**

Whittinghill, C., Agrawal, B.N. and Kolar, R., "Numerical Simulations of Inflated Structural Membranes," *Proceedings of the 8th SPIE International Conference on Smart Structures and Materials*, Newport Beach, California, March, 2001, pp. (pending).  
Whittinghill, C., Agrawal, B.N. and Kolar, R., "Characterization of Piezoelectric Membranes," *Proceedings of the 8th SPIE International Conference on Smart Structures and Materials*, Newport Beach, California, March, 2001, pp. (pending).

Platzer, M.F. and Kolar, R., "Aerothermoelastic Analysis of Hypersonic Missile Fins," NPS Technical Report AA-01-002, Naval Postgraduate School, Monterey, California, March, 2001.

Platzer, M.F., and Kolar, R., "Aeroelastic Analysis of Hypersonic Missile Fins," Naval Postgraduate School, Technical Report, Monterey, California, January, 2000.

Platzer, M.F. and Kolar, R., "Aeroelastic Instability Studies of Vandal Missile Fin," NPS Technical Report, Naval Postgraduate School, Monterey, California, January, 2000.

Harmon, M., Wood, E.R. and Kolar, R., "Structural Dynamic and Weapons Accuracy Analysis of Comanche Helicopter," Technical Report, Naval Postgraduate School, Monterey, California, December, 1999.